

Name : _____

Multiplying Trinomials

Single-variable: S1

Multiply the following.

1) $\left(-2n^2 + \frac{2}{3}n - \frac{2}{5}n^3\right)\left(1 + \frac{3}{2}n + 3n^2\right)$

2) $(-4h^6 + 8h^3 + 2h^9)$

3) $\left(\frac{1}{3} + k - \frac{1}{2}k^2\right)$

4) $(2u^4 - 3u^2 + 4u^6)$

5) $(-12z^6 - 8z^4 - 4z^2)(3z^5 - 2z^3 + z)$

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Answer key

Multiplying Trinomials

Single-variable: S1

Multiply the following.

1) $(-2n^2 + \frac{2}{3}n - \frac{2}{5}n^3)(1 + \frac{3}{2}n + 3n^2)$

$$-\frac{6}{5}n^5 - \frac{33}{5}n^4 - \frac{7}{5}n^3 - n^2 + \frac{2}{3}n$$

2) $(-4h^6 + 8h^2 - 8)(-2h^5 + 2h^3 - 1)$

$$-32h^{10} - 8$$

3) $(\frac{1}{3} + k - k^2)(3k^3 - 2k^2 + 1)$

$$\frac{9}{5}k^4 - \frac{12}{5}k^3 + \frac{1}{5}k^2 + \frac{1}{3}k + \frac{1}{3}$$

4) $(2u^4 - 3u^2 + 1)(9u^4 - 5u^2 + 1)$

$$18u^8 - 35u^7 + 8u^4 + 12u^3$$

5) $(-12z^6 - 8z^4 - 4z^2)(3z^5 - 2z^3 + z)$

$$-36z^{11} - 8z^7 - 4z^3$$

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